ACC NR: AT6007147

(N)

SOURCE CODE: UR/3148/60/000/004/0042/0047

AUTHOR: Lipskaya, N.V.; Deniskin, N.A.; Yegorov, Yu.M.; Shel'ting, V.F.

ORG: None

TITLE: A stationary microvariational station with photomultiplication

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. III razdel programmy MGG: Geomagnetizm i zemnyye toki. Sbornik statey, no. 4, 1960, 42-47

TOPIC TAGS: geomagnetic instrumentation, magnetometer, recording precision magnetometer, 680MAGNETIC MEASURE MENT

ABSTRACT: This paper is a description of a sensitive precision magnetographic station for continuous recording of three geomagnetic variation components. The magnetometers have a resolving power of a few thousandth gamma, at frequencies to 1c/sec. The sensor is a low inertial (under .001 gm.cm³) quartz torsion balance, with a moving magnet attached to a light mirror. Oscillations of a reflected light beam are converted into a photocurrent, intesified by a photomultiplier and amplified to drive a recorder. Output is on paper, with 1mm equivalent to .005 gamma. Constant field compensation is provided by magnets and Helmholz coils. Special coils supply noise suppression feedback and stabilize the sensitivity. Automatic range switching and a central control and sensitivity monitoring unit are provided. Orig. art. has 4 figures

SUB CODE: 08/

SUBM DATE: None/

ORIG REF: 003

Card 1/1

40226

S/169/62/000/007/076/149 D228/D307

3.9110

AUTHORS:

Lipskaya, N. V., Deniskin, N. A. and Yegorov, Yu. M.

TITLE:

Constructing electromagnetic sounding curves from the data of observing microvariations in the earth's natural electromagnetic field

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 33-34, abstract 7A218 (V sb. Vopr. teorii i praktiki elektrometrii, M., AN SSSR, 1961, 41-55)

TEXT: The study of variations in the earth's natural electromagnetic field and the determination of the quantitative correlations between its magnetic and electric components underlie the magnetotelluric method. This provides the possibility of establishing the relationship between the field's recorded values and the geologic structure of ground at the point of observation. It is noted that the magnetotelluric method differs from other electric prospecting methods in the absence of an artificial field source, in the great depth of propagation of the natural field variations, and in

Card 1/4

Card 2/4

S/169/62/000/007/076/149 D228/D307

Constructing electromagnetic sounding... D228/D307

the simultaneous recording of electric and magnetic variations on the requisite frequency band. This enables the whole frequency sounding curve to be constructed from observations made at one

the requisite frequency band. This enables the whole frequency sounding curve to be constructed from observations made at one point. The depth of propagation of the natural field variations grows as the period of the variations increases; therefore, the frequency band of the recorded variations determines the equipment's field of application. There are induction-type installations and equipment, based on the magnetostatic principle. The field quartz microvariation station of the Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth, AS USSR) is described. The station is suitable for continuously recording the three magnetic field components H_x, H_y, and H_z in the frequency range from 1 to several thousand parts of a hertz. It consists of a receiving part (microvariometer, clarifier, photomultiplier); and control, recording, and power-supply panels, placed 30 m from the receiving part. Tests of the apparatus confirmed that there is a linear relationship between the amplitude of the changes in the magnetic field acting on the microvariometer and the values of the recorded

S/169/62/000/007/076/149 Constructing electromagnetic sounding ... D228/D307

photocurrent. The current recording curve is reproduced on a certain scale without greatly distorting the curve for the microvariations of the measured field components with a variational range of up to 2 - 3 % and with periods, varying from 3 sec to several minutes. The ratio of the ranges of variations, recorded by two installations, remains constant with a precision of up to 4 - 8%. The amplitude and phase characteristics of the field equipment are cited, as are vector diagrams, characterizing the instantaneous positions and the magnitude of the horizontal components of the magnetic and electric field vectors for the variations with periods of T equalling 32 and 210 sec. The authors consider examples of the recording of electromagnetic field variations at two points of the Dneprovsko-Donetskaya Depression with known geologic sections. When constructing the frequency sounding curves ratios were calculated for the amplitudes of the variations of two mutually perpendicular components of the electric and magnetic fields; these were recorded at the same moment of time and have an identical period. The impedance was determined from the formulas:

Card 3/4

Constructing electromagnetic sounding ...

S/169/62/000/007/076/149 D228/D307

$$\rho_{K} = \frac{T}{5} \left| \frac{E_{X}}{H_{y}} \right|^{2} \quad \text{and} \quad \rho_{K} = \frac{T}{5} \left| \frac{E_{y}}{H_{x}} \right|^{2}$$

ıΧ

The experimental curves of ρ_K were compared with the theoretical curves of self-potential field electrosounding for a three-layer medium; these latter curves were calculated for $\mu = \rho_2/\rho_1 = 16$ and 32, $v = h_2/h_1 = 1.0$ and 1.5, $\rho_3 = \infty$, $h_3 = \infty$. The comparison gave satisfactory results. It is noted that despite the equipment's ability to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to record microvariations with periods of down to 1 sec, no lity to re

TIKHONOV, A.N.; LIPSKAYA, N.V.; DENISKIN, N.A.; NIKIFOROVA, N.N.; LOMAKINA,

Electromagnetic sounding of deep layers of the earth. Dokl. AN SSSR 140 no.3:587-590 S *61. (MIRA 14:9)

1. Institut fiziki Zemli im. O. Yu.Shmidta AN SSSR; 2. Chlenkrooespondent AN SSSR (for Tikhonov). (Magnetism, Terrestrial)

ACC NR: AP6015682 (N) SOURCE CODE: UR/0413/66/000/009/0079/0079

INVENTOR: Vikhorev, V. G.; Deniskin, V. P.; Trakhtenberg, L. I.

ORG: None

TITLE: An eddy current instrument for measuring the thickness and resistivity of sheet material. Class 42, No. 181306

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 79

TOPIC TAGS: eddy current, electronic measurement, resistivity

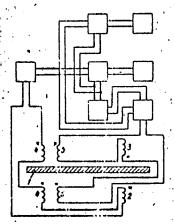
ABSTRACT: This Author's Certificate introduces an eddy current instrument for measuring the thickness and resistivity of sheet material. The unit contains an rf current generator, two overlapping eddy current pickups, phase detectors which are sensitive to thanges in the thickness and resistivity of the sheet material and an indicator. The unit is designed for eliminating the effect which changes in the gap between the pickups and the sheet being inspected have on instrument readings. The device contains a shielded pickup with current and measurement coils with the same geometric specifications as the corresponding coils in the overlapping pickups, while the measurement coil in the shielded pickup has three times as many turns as that in the overlapping pickup. The current coils in all pickups are connected in series and are all in phase. The measurement coils in the overlapping pickups are likewise connected

Card 1/2

UDC: 531.717.11.621.317.33

ACC NR: AP6015682

in series and in phase with each other and in series and opposition with the measurement coil of the shielded pickup.



1-sheet being inspected; 2-current coil of the shielded pickup; 3-measurement coil of the shielded pickup; 4-current coils of the overlapping pickups; 5-measurement coils of the overlapping pickups

SUB CODE: 09/ SUBM DATE: 12Ju165

Card 2/2

DEMISIUK, Zygmunt

Flora of the vicinity of Lesna Podlaska. Biologia Poznan no.3: 31-66 '61.

1. Institute of Plant Systematics and Geography, A. Mickiewicz University, Poznam

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000310120009-5"

 $\frac{\partial \mathcal{L}_{\mathcal{A}}(x,y)}{\partial \mathcal{L}_{\mathcal{A}}(x,y)} = \frac{\partial \mathcal{L}_{\mathcal{A}}(x,y)}{\partial \mathcal{L}_{\mathcal{A}}(x,y)}$

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S/169/61/000/002/007/039 A005/A001

3,9100

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 2, p. 3, # 2G16

AUTHORS: Deniskin, N. A., Yegorov, Yu. M., Lipskaya, N. V., Osinskaya, S. V., Kheresko, G. V., Shel'ting, V. F.

TITLE: A Magne

A Magnetic Station With a Quartz Microvariometer

PERIODICAL: V sb.: "Vozmushcheniya elektromagnitn. polya Zemli". Moscow, AN SSSR, 1960, pp. 57-62 (English summary)

TEXT: It is reported on the development and designing of a magnetic microvariation station on the basis of the low-inertial quartz variometer which was proposed by V. F. Shel'ting (see abstr. No. 2G15). The station is intended for continuous recording of the variations of all three components of the Earth's magnetic field with amplitudes of the order of 10⁻⁷ oe and more, and duration of from 1 sec. to many minutes. The equipment consists of three main assemblies: 1) the microvariometers of X, Y, Z; 2) the photographic recorder with 200 mm in paper width and 90 mm/hr in speed, which has also a device marking the time; 3) an automatic band switch relay operated by two photoresistances and permitting the rays to return in jump onto the phototape after reflection from the microvariometer Card 1/2

89754

S/169/61/000/002/007/039 A005/A001

A Magnetic Station With a Quartz Microvariometer

mirror in case of its departure from the tape under the effect of an intense variation of the field. If operating with the automatic banswitch relay, large angular deflections of the moving system of the responsive element are excluded, which is important for the stabilization of the graduation value. As a result of the tests of the station, which were conducted in autumn 1957, it turned out that: 1) the moment of inertia of the moving system is equal to 10^{-5} g cm²; 2) the natural periods of the oscillations of the different variometers lie within the limits of $T_0 \approx 1$ - 2 sec at a graduation value of the order of $E \approx 0.05$ /arc minute; 3) the magnetic moments of the moving magnets amount to about m = 0.5-1 electromagnetic units; 4) the shape of the frequency characteristic of the device testifies that the graduation value is constant for all periods longer than two or three seconds and does not depend on the period of the perturbing force; 5) the amplitude characteristic is linear within the limits of the scale width. There are 7 references:

U. Fastovskiy

Translation from: This is the full translation of the original Russian abstract.

Card 2/2

LIPSKAYA, N.V.; DENISKIN, N.A.; YEGOROV, Yu.M.

Results of electromagnetic sounding in the central area of the misper-Donets Depression. Izv. AN SSR. Ser. geofiz. no. 3:407-111 in 161. (MIRA 14:2)

1. In thirt fiziki Zemli AN SSSR.
(Homarovka Region (Chernigov Province)—Electromagnetic prospecting)

L 1,093-66 ENT(1)/ENA(h)

ACC NR: AP5024987

SOURCE CODE: UR/0286/65/000/016/0048/0048

INVENTOR: Deniskin, V. P.; Shkarlet, Yu. M.

ORG: none

TITLE: Contactless phase inverter. Class 21, No. 173819 [announced by Organization of the State Committee on Radio Electronics, SSSR (Organizatsiya gosudarstvennogo komiteta po radioelektronike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 48

TOPIC TAGS: phase shift, contectless phase shifter 25

ABSTRACT: This Author Certificate introduces a contactless phase inverter consisting of basic and compensating coils mounted beside a sliding support coated with a current conducting material. To increase the stability of the angle of phase shift, the amplitude of the output voltage, and the angle of the phase shift itself, two pairs of spaced basic coils and compensating coils are used. The primary basic coil and accompanying compensating coils are connected in series and out of phase; the second pair is connected in series and in phase. The thickness of the current-conducting layer on the sliding support increases linearly in the direction of the axis of symmetry of the spaced coils. Orig. art. has: I figures

SUB CODE: EC/ SUBM DATE: 27Dec63/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS:4//24

BYK

Cord 1/1

IDC: 621.314.25

ACCESSION NR: AP4004145

s/0294/63/001/002/0238/0246

AUTHORS: Subbotin, V. I.; Minashin, V. Ye.; Deniskin, Ye. I.

TITLE: Heat transfer in flow across banks of tubes

SOURCE: Teplofizika vy*sokikh temperatur, v. 1, no. 2, 1963, 238-246

TOPIC TAGS: heat transfer, liquid metal, transverse flow, reactor coolant, heat exchanger, coolant, thermal conductivity

ABSTRACT: A brief review is presented of heat exchange research on transverse flow of water and liquid metal over bundles of tubes, carried out at the Fiziko-energeticheskiy institut (Physics and Power Engineering Institute) in 1958--1962. The measurement procedures are briefly described. The results are summarized as follows: 1. The wall temperature of the heat-releasing tube varies with time and the temperature pulsations are due to instability of liquid flow. 2. The average heat transfer coefficient for pure liquid metals can be calculated accurate to ±30%, for a wide range of different tube-bundle geometries, from the formula Nu = Pe^{0.5} (Pe = 150--7,000), where the average velocity is calculated in the narrow sec-

Card 1/3

ACCESSION NR: AP4004145

tion of the bundle, and the linear dimension is chosen to be the tube diameter. 3. The relative temperature profile varies little over the perimeter of the tube with variation of the bundle geometry and rate of coolant flow. 4. The wall temperature pulsations are assumed to be due to instability of some layer next to the wall. The temperature pulsations depend strongly on the bundle geometry. 6. The relative pulsations depend little on the velocity. therefore recommended that until more detailed research is made each individual bundle be characterized by the maximum temperature pulsation. 7. The temperature pulsations depend linearly on the heat flow when the physical properties change little. 8. The temperature pulsation frequency increases with increasing velocity and ranges from 0.01 to 5 cps. 9. Below 0.5 or 1 cps the temperature pulsations depend little on the tube material and vary little over the thickness (2 mm). 10. Insulating films affect temperature pulsations with frequencies lower than 0.5 cps little, and the temperature gradient changes in this case by a factor 2--3. 11. acter of the temperature pulsations depends strongly on the bundle Card 2/3

ACCESSION NR: AP4004145

geometry and on the velocity. 12. The absolute values of the temperature pulsations are nearly the same for flow of water or liquid metal. Orig. art. has: 6 figures, 4 formulas, and 1 table.

ASSOCIATION: Fiziki-energeticheskiy institut (Physics and Power Engineering Institute)

SUBMITTED: 11Jun63 DATE ACQ: 26Dec63 ENCL: 00

SUB CODE: PR, AI NO REF SOV: 013 OTHER: 009

Card 3/3

L 12945-63

EWT(1)/BDS/EEC-2/ES(s)-2

AFFT:C/AFGC/ASD/ESD-3/SSD

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ACCESSION NR: AP3001090

\$/0108/63/018/007/0038/0048

AUTHOR: Deniskin, Yu. D.

TITLE: H-shaped metal-dielectric waveguide with two dielectric plates

SOURCE: Radiotekhnika, v. 18, no. 7, 1963, 38-48

TOPIC TAGS: metal-dielectric waveguide, waveguide plate breakdown strength, waveguide equivalent resistance, longitudinal magnetic wave, longitudinal electric wave, waveguide loss

ABSTRACT: The advantages of an H-shaped metal-dielectric waveguide with two dielectric plates over an H-shaped waveguide with one plate are discussed. The possibility of the existence of longitudinal magnetic and electric waves is investigated and curves are plotted which make it possible to calculate breakdown strength, losses in metal and dielectric plates, the width of metal plates, and the equivalent resistance in the presence of longitudinal magnetic waves. The breakdown strength of teflon-4 dielectric plates in the presence of longitudinal electric waves is also discussed. The following conclusions were reached:

1) The use of H-shaped waveguides with two dielectric plates results in a

Cord 1/2

1 12945-63 ACCESSION MR: AP1004090

breakdown strength double that of a waveguide with one dielectric plate. 2) losses in a waveguide with two dielectric plates do not exceed those occurring in a guide with one plate and may be made even lower. 3) When low losses are important, preference should be given to longitudinal magnetic waves. When losses are of secondary importance, it is expedient to use longitudinal electric waves at which breakdown strength is at least twice as high as breakdown strength at longitudinal magnetic waves. 4) In principle, it is possible to utilize quadrupole waves which result in low losses at relatively high a values while preserving high breakdown strength where a is the plate thickness. ()rig. art. has:

ASSOCIATION: none

SUBMITTED: 24Jan62

DATE ACQ: 05Aug63

ENCL: 00

SUB CODE: GE

NO REF SOV: 002

OTHER: 004

·Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

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L 25498-66 EWT(1) IJP(c) AT

ACC NR. AP6011397

SOURCE CODE: UR/0057/66/036/003/0508/0510

AUTHOR: Deniskin, Yu.D.

ORG: Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut)

TITLE: The influence of penetration of electrons into a solid body on the heating of its surface by pulsed electron bombardment

SOURCE: Zhurnal tekhnicheskoy fiziki, v.36, no. 3, 1966, 508-510

TOPIC TAGS: electron beam, electron energy, metal surface, heating, heat conduction, electronic equipment, electron bombardment, surface property, temperature distribution

ABSTRACT: The author calculates the temperature rise at the surface of a body due to bombardment by a short pulse of electrons, taking into account the fact that the electrons penetrate into the target and deliver some of their heat below the surface. The effect of electron penetration on the surface temperature rise is significant when the electron penetration depth is comparable with the depth reached as a result of conduction during the pulse by the heat delivered at the surface. The calculation was undertaken because this condition obtains in some modern high power high voltage pulsed electronic equipment. The calculation is straightforward. It is found that the true temperature rise is given by the expression TG, where T is the temperature rise calculated on the assumption that all the heat is delivered at the surface and G is a correction factor less than unity that depends both on the parameter d/(ct) 1/2,

Card 1/2

UDC: 537.533.79

L 25498-66

ACC NR: AP6011397

where d is the mean electron penetration depth, c is the thermal conductivity, and t is the duration of the pulse, and on the form of the function giving the fraction of its energy that the electron delivers to the target as heat at different depths below the surface. The factor G was calculated numerically as a function of d/(ct) for different assumptions concerning the distribution function, including those proposed by A.F.Makhov (FTT, 2, 2176, 1960) and by A.Ya.Vyatskiy and A.N. Pilyankevich (FTT, 5, 1285,1963), and the results are presented graphically. As a numerical example it is noted that according to current data on electron penetration depths, the factor G for one microsecond pulseson copper is approximately 0.975 for 20 keV electrons and 0.26 for 200 keV electrons. Orig. art. has: 7 formulas and 2 figures.

SUB CODE: 20,09 SUBM DATE: 21Jun65 ORIG. REF: 011 OTH REF: 004

Card 2/2 11 /1

POKROVSKIY, Ye.A.; UNTERBERGER, V.K.; DENISKINA, G.P.

Measures for controlling the San Jose scale. Zashch. rast. ot vred. i bol. 5 no.1:27 Ja '60. (MIRA 14:6) (San Jose scale)

DENISKO, N.P., inzh.

Accuracy of the source data in electric traction calculations. Trudy Khab. IIT no.16:5-17 1.64 (MIRA 18:2)

Choice of the step of integration in the solution of the principal equation of motion of a train using Eiler's numerical method. Ibid. :18-31

¹⁶ (1)

Sov/21-59-6-3/27

AUTHOR:

Denisko, S. V.

TITLE:

Equiareal Interpretations of a Lobachevskiy Plane

PERIODICAL:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1959, Nr 6,

pp 574 - 576 (USSR)

ABSTRACT:

This article deals with two reflections of a Lobachevskiy plane on a Euclidian plane, at which the areas of the reflected figures are retained. These reflections allow a ready solution of certain problems of Lobachevskiy's

geometry. Using the Beltrami formula

$$S = k^2 \int \int \frac{r dx d \varphi}{1 - r^2 \frac{3}{2}},$$

as a point of departure, the author, after a series of calculations, arrives at the final formula

Card 1/2

SOV/21-59-6-3/27

Equiareal Interpretations of a Lobachevskiy Plane

$$S = \frac{ak^2}{h} = kl.$$

There are 2 diagrams and 2 Soviet references.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical

Institute)

PERIODICAL: By V. G. Gnedenko, Member, AS UkrSSR

SUBMITTED: December 26, 1958

Card 2/2

DENISKO, S. V.

Use of bundles of parallel straight lines inequiareal representations of surfaces in which the curvature lines of one family lie in parallel planes. Dop.AN URSR no.10;1311-1314 '60.

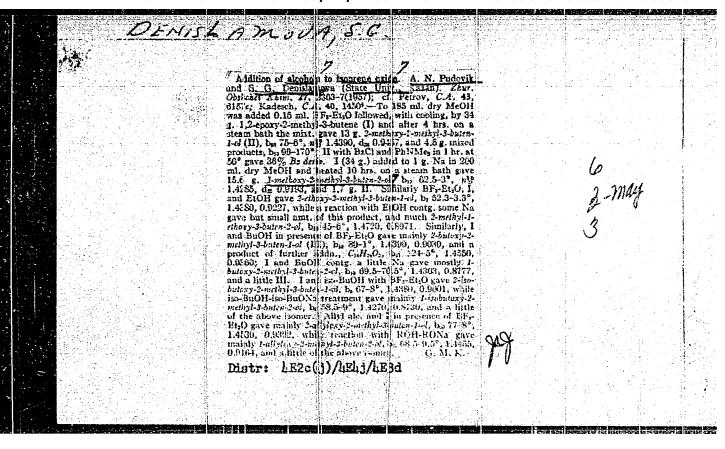
(MIRA 13:11)

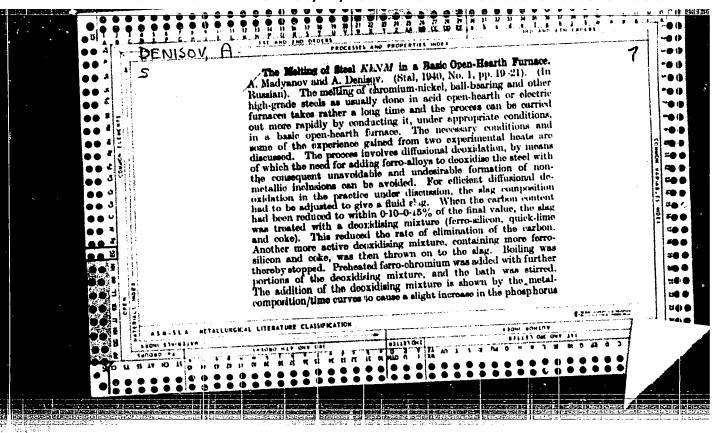
1. Kiyevskiy politekhnicheskiy institut. Fredstavleno akademikon AN USSR B.V.Gnedenko.
(Surfaces, Representation of)

DENISKO, S.V. [Denysko, S V.]

A class of metrical bends of linear congruences. Dop. AN URSR no.3:288-290 '65. (MIRA 18:3)

1. L'vovskiy gosudarstvennyy universitet.





DENISOV, A.

Laying xylolite floors. Gor.i sel'.stroi. no.7:10-11 J1 '57.

(MLRA 10:10)

DENISOV, A., instruktor proizvodstvennogo obucheniya; SLOUSHCH, S., instruktor proizvodstvennogo obucheniya; ZAMAKH, B.; BORISOV, I., prepodavatel'.

Training automobile mechanics. Avt. transp. 36 no.1:29 Ja 158.
(MIRA 11:1)

- 1. Nachal nik Liyepayskoy avtotransportnoy kontory No.4 (for Zamakh).
- 2. Voronezhskaya avtoshkola (for Borisov).
 (Automobile mechanics)

DENISOV, A.; KAMALETDINOV, Sh.

Machine accounting of copies of primary documents. Bukhg. uchet 15 no.5:28-35 My '58. (MIRA 11:5) (Machine accounting)

DENISOV, A.

Accounting for working time without a timekeeper. Sots. trud 6 no.7:121-125 J1 '61. (MIRA 16:7)

l. Zamestitel nachal nika otdela Vsesoyuznogo proyektnotekhnologicheskogo instituta Moskovskogo gorodskogo soveta narodnogo khozyaystva. (Moscow-Machine tool industry-Accounting) (Timekeeping(Labor))

DENISOV, A., morskoy ofitser sapasa

Outstanding worker in Russian navigation. Mor.flot 19 no.1:38-39 Ja '59. (MIRA 12:3) (Kurganov, Nikolai Gavrilovich, 1725-1796)

DENISOV, A., kapitan pervogo ranga v otstavke

Expansion of astronomy methods of determining longitudes in navigation. Mor.flot 22 no.1:38 Ja '62. (MIRA 15:1) (Nautical astronomy)

DENISOV, A.

The first teacher of the Russian seamen. Mor. flot 24 no.9:42 S 164. (MIRA 18:5)

DENISOV, A.

Methodology for developing maintenance norms for greasers. Biul. nauch. inform. trud il zar. plata 5 no.9:14-19 '62. (MIRA 15:10)

(Machinery industry.—Production standards)
(Labrication and lubricants)

DENISOV, Artem; POTAPOVA, M.S., red.

[Formula of the unexplored] Formula neizvedannogo. Moskva, Sovetskaia Rossiia, 1965. 71 p. (MIRA 18:3)

DENISOV, A. H.

DENISOV, A.A.

Determining the propagation constant of surface TM waves propagated along cylindrical conductors having a ribbed, annular structure.

Trudy LPI no.181:68-74 *55. (MIRA 10:1)

(Blectric waves) (Electric conductors)

DENISOV Aleksandr Aleksandrovich, kend.tekhn.rauk. dotsent; SHALYGIN. Teor! Vladimirovich, starshiy inzh.

Control network of an electromagnet using regulated silicon rectifiers. Izv.vys.ucheb.zav.; elektromekh. 8 no.9:1012-1021

[65. (MIRA 18:10)

1. Kafedra elektrooborudovaniya promyshlennykh predpriyatiy Novocher-kasskogo politekhnicheskogo instituta (for Denisov). 2. laboratoriya avtomatizatsii proizvodstvennykh protsessov Novocherkasskogo politekhnicheskogo instituta (for Shalygin).

KRIVONOS. F.F.; DENISOV. A.A. (Sumy).

Synthesis of bensene hexachloride in the studies of the chemistry club. Khim.v shkole 11 no.6:44-46 M-D '56. (MLRA 9:12)

(Bensine hexachloride)

DENISOV, A.A. (g. Sumy)

Hydrolysis of cellulose. Khim. v shkole. no.2:55-57 Mr-Ap '58.

(Hydrolysis) (Cellulose)

(MIRA 11:3)

KAZINITSKIY, Mikhail Il'ich, insh.; PLOTKIN, Neum Borisovich, inzh.;

TOLCHINSKIY, Aleksandr Aleksandrovich, inzh.; CHAPLITSKIY,

Vladimir Konstantinovich, insh.; NASEDKIN, V.M., inzh., retsenzent;

SIVITSKIY, K.P., înzh., retsenzent; KOTOVICH, B.M., &otsent,

retsenzent; VOLCHANSKIY, R.A., kand.tekhn.nauk, nauchnyy red.;

DENISOV, A.A., dotsent, nauchnyy red.; BILINSKIY, M.Ya., red.;

RAKOV, S.I., tekhn.red.

[Handbook for collective farm construction foremen] Spravochnik kolkhoznogo desiatnika-atroitelia. Moskva, Vses.uchebno-pedagog. izd-vo Trudrezervizdat, 1959. 564 p. (MIRA 13:5) (Building)

VOROB'YEV, Vasiliy Aleksandrovich, prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR. Prinimali uchastiye: GLYBIN, V.S., starshiy prepodavatel'; DENISOV, A.A., kand.tekhn.nauk, dotsent; KOMAR, A.G., kand.tekhn.nauk, dotsent; FEDOSEV, G.P., starshiy prepodavatel'. MARTYNOV, A.P., red.; VORONINA, R.K., tekhn.red.

[Building materials] Stroitel'nye materialy. Izd.3., rasshirennoe i perer. Moskva, Vysshaia shkola, 1962. 496 p.

(MIRA 15:5)

(Building materials)

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L 23216-66 EWI(d)/EWP(k)/EWP(1)ACC NR. AP6013582 SOURCE CODE: UR/0144/65/000/010/1181/1182

AUTHOR: Avilov-Karnaukhov, B. N.; Bogush, A. G.; Gikis, A. F.; Drozdov, A. D.; Malov, D. I.; Sinel'nikov, Ye. M.; Brusentsov, L. V.; Denisov, A. A.; Pal'shau, M. V.; Polyakov, B. A.; Chernyavskiy, F. I.; Burok, V. S.; Gordeyev, V. I.; Kazhdan, A. E.; Kovalev, V. Ye.; Kurennyy, E. G.; Potapenko, V. Ya.

ORG: none

TITIE: Professor G. M. Kayalov on the occasion of his 60th birthday and 37 years of pedagogical activities

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 10, 1965, 1181-1182

TOPIC TAGS: electric engineering personnel, academic personnel

ABSTRACT: Doctor of Engineering Sciences, Professor of RIIZhT Rostovskiy institut inzhenerov zheleznodorozhnogo transporta; Rostov Institute of Railreal Engineers/. Georgiy Mikhaylovich KAYALOV was born on 26 September 60 years ago. He began his working career as a standby electrical construction worker at the Novorossiysk cement factory. In 1929 he graduated from the Novocherkassk Polytechnical Institute, and between 1928 and 1947 worked in the designing section of the "Elektroprom" trust. Sub-

Cord 1/2

L 23216-66 ACC NR. AP6013582

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sequently, he joined the Rostov department of the GPI Gosudarstvennyy proyektnyy institut; State Designing Institute "Tyazhpromelektroproyekt" where he advanced from a technician of the designing department to its chief engineer. From 1933 to 1962 he was docent of the department of electrification of industrial enterprises of the NPI /Novocherkasskiy politekhnicheskiy institut imeni Sergo Ordzhonikidze; Novocherkassk Politechnic Institute im. Sergo Ordzhonikidze/; he taught as professor until 1965 and presently is a professor of the RIIZhT. He published more than 70 scientific works, including studies of flywheel-containing electric motors, investigations of electrical loads of industrial enterprises, analyses of basic features of real load graphs, (including their probabilistic modeling), proposals for peak load calculation methods (based on the theory of mass servicing) and developments of methods for the calculation of extremal loads of heavy consumers, for the study of random graphs of reactive loads, for the evaluation of electric load fluctuations, and the like. G. M. KAYALOV was also active in the Party, professional, and scientific organizations. He is a holder of the "For Outstanding Work During the Great Patriotic War of 1941-1945 gg." medal and the "Badge of Honor"

decoration. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09, 05 / SUBM DATE: none

Card 2/2 28

L 44320-66 EWT(1)

ACC NR: AP6030158

SOURCE CODE: UR/0120/66/000/004/0204/0205

. AUTHOR: Gol'denberg, L. G.; Denisoy, A. A.

30 B

ORG: Leningrad Polytechnical Institute (Leningradskiy politekhnicheskiy institut)

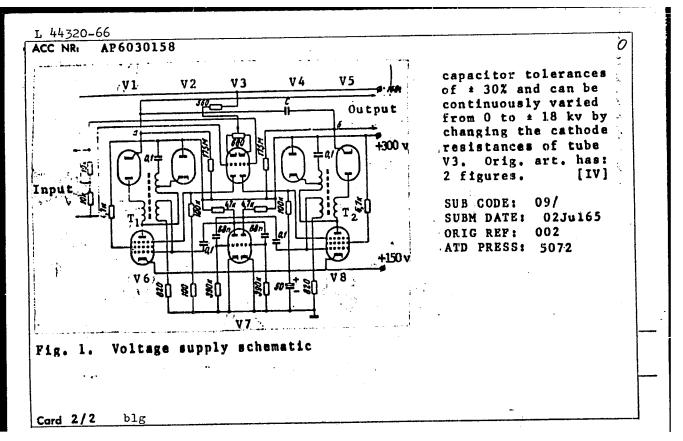
TITLE: Regulated low-power, high-voltage source

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 204-205

TOPIC TAGS: power supply, high voltage line

ABSTRACT: An adjustable high-voltage supply with an output voltage of up to 20 kv and a current of 0.1 mamp is described. The generator (see Fig. 1) is a balanced bridge type with its output polarity controlled by the polarity of the input voltage. Positive feedback is obtained from separate windings of sweep transformers T_1 and T_2 . Tube V7 is a balanced multivibrator with a frequency of 18 kc; its output together with the feedback signal is applied to the grids of tubes V6 and V8. Tubes V2 and V4 are damping diodes, and V1 and V5 are rectifiers with output voltages of 12-13 kv without and 18-20 kv with positive feedback. Two salient features of the source are its stability for a wide range of component tolerances and its variable output voltage. The output voltage remains constant for resistor and

Card 1/2 UDC: 621.311.6



L 07073-67

ACC NR: AP6019231

V) SOURCE CODE:

UR/01.44/66/000/002/0181/0186

Landy.

AUTHOR: Denisov, A. A.; Sabadashev, V. P.

ORG: None

40 B

TITLE: Magnetic switch and its application in remote control systems

SOURCE: IVUZ. Elektromekhanika, no. 2, 1966, 181-186

TOPIC TAGS: electric switch, remote control system, telemetry system

ABSTRACT: A magnetic switch consisting of a contactless cyclic distributor is described. Magnetic contacts replace electrical ones. A steel armature is secured to a rotating shaft, around the circumference of which are transformers with open magnetic circuits and two windings. The primary windings of all elements are connected in series to an AC power supply. As the shaft rotates it opens and closes the magnetic circuits of the working element secondaries. The primary advantages of a telemechanics system with a magnetic switch are almost unlimited service life of magnetic contacts; pulse durations long enough to operate an electromechanical relay; AC at commercial frequency can be used for switching; all elements are contactless. Orig. art. has: 3 formulas and 7 figures.

SUB CODE: 09/SUBM DATE: 13Feb64/ORIG REF: 001

Card 1/1 20

UDC: 621.316.3+621.397

ACC NR: AP7004342

SOURCE CODE: UR/0144/66/000/010/1102/1114

AUTHOR: Denisov, A. A. (Gandidate of technical sciences, Docent);

Shalygin, I. V. (Senior engineer)

ORG: Novocherkassk Polytechnic Institute (Novocherkasskiy politekhnicheskiy institut)

TITLE: Optimal current diagram in the circuit of a large-power impulse electromagnet

SOURCE: IVUZ. Elektromekhanika, no. 10, 1966, 1102-1114

TOPIC TAGS: electromagnet, pulse shape

ABSTRACT: The problem of ensuring quick action of an electromagnet with minimum armature-against-core striking force is solved by developing an optimal shape of current impulse in the magnet winding. Theoretical considerations show that: (a) the most desirable armature speed diagram is rectangular, (b) stepping up the force of attraction more than 4 times normal is inexpedient, and (c) the rectangular speed diagram is practically impossible because of electromagnetic and mechanical inertia; hence, a trapezoidal diagram is the most desirable in practice. The optimal current-

Cord 1/2

UDC: 621.3.014.33+621.318.4

ACC NR: AP7004342

impulse shape can be ensured by applying a forced voltage impulse to the electromagnet through a suitable transistor or technetron circuit. As Soviet-made transistors are not designed for high enough voltages and Soviet technetrons are not fabricated as yet, a thyristor controlled by a logic circuit was used. Transient processes were simulated on an analog computer. A large shell-type conic-plunger 150-kg-pull electromagnet was tested: a plot of final plunger speed vs. forcing time is shown. Conclusions: (1) The current-forcing time to armature-motion time ratio should be 0.1-0.4; (2) The optimal current-impulse shape permits reducing the striking force by 50%; (3) The simplest device for near-optimal shaping of the current impulse is the thyristor phase-controlled by a semiconductor circuit; (4) In complex cases involving variable-mass nonlinear electromagnetic mechanisms, simulation of transient processes on analog computers is recommended. Orig. art. has: 10 figures, 22 formulas, and 4 tables.

SUB CODE: 09, 20 / SUBM DATE: 06Jan66 / ORIG REF: 004 / OTH REF: 001

Card 2/2

ACC NR: AP7004783

SOURCE CODE: UR/01/13/67/000/001/0096/0096

INVENTOR: Denisov, A.A.; Gol'denberg, L.G.; Reshetikhin, R.V.

ORG: none

TITLE: Electropneumatic (electrohydraulic) converter. Class 42, No. 190090 [announced by Leningrad Polytechnical Institute im. M.I. Kalinin (Leningradskiy politekhnicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 96

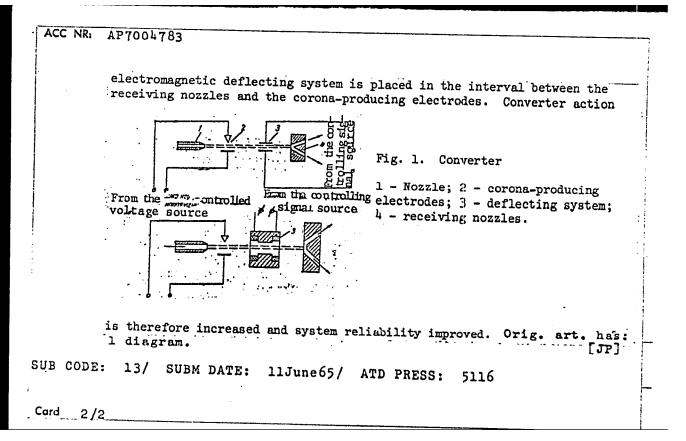
TOPIC TAGS: electropneumatic control, pneumatic device, hydraulic device, ELECTRO MECHANIC CONVERTER

ABSTRACT:

An Author Certificate has been issued for an electropneumatic (electrohydraulic) converter which employs the action of a homogeneous electrostatic or electromagnetic field on a jet of gas or of liquid, with preliminary application of a surface charge to the jet. The converter contains a jet-forming, nozzle, corona-producing electrodes, a deflecting system, and receiving nozzles. These nozzles are symmetrically positioned in relation to the axis of the jet-forming nozzle, and the electrostatic or

Card 1/2

UDC: 681.142-525



DENISOV, Aleksandr Aleksandrovich, assistent

Reflect of output on the consumption of energy by excavation sections of mines. Izv.vys.ucheb.zav.; elektro-mekh. 3 no.1: 126-134 '60. (MIRA 13:5)

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy Novocherkasskogo politekhnicheskogo instituta. (Electricity in mining)

DENISOV, Aleksandr. Aleksandrovich, assistent

Intercoupling of the operation of mechanisms and its effect on the load graph of a district underground substation. Izv. vys. ucheb. zav.; elektromekh. 3 no.4:102-110 10. (MIRA 13:9)

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy Novocherkasskogo politekhnicheskogo instituta.

(Electric substations) (Electric machinery)

DENISOV, Aleksandr Aleksandrovich, kand. tekh. nauk, ispolnyayushchiy obyazannosti dotsenta; SABADASHEV, Viktor Petrovich, kand. tekhn. nauk, dotsent

Device for signaling shaft rotation. Izv. vys. ucheb. zav.; elektromekh. 8 no.5:599-601 '65. (MIRA 18:7)

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy Novocherkasskogo politekhnicheskogo instituta (for Denisov). 2. Kafedra avtomatiki i telemekhaniki Novocherkasskogo politekhnicheskogo (for Sabadashev).

DENISOV, A. A.

Cand Tech Sci - (diss) "Determination of estimated electrical loads of section transformer substations of Donbass coal mines." Novocherkassk, 1961. 27 pp with illustrations; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Donets Order of Lator Red Banner Polytechnic Inst); 200 copies; price not given; (KL, 6-61 sup, 216)

EWT(d)/EPF(n)-2/EWP(v)/EWP(k)/EWP(h)/EWP(1) FG-4/PG-4/PF-4/Pg-4/ Pae-2/Pu-4/Pk-4/Pl-4 IJP(c) WW/BC 5/0271/64/000/008/A025/A025 62.501.1 ACCESSION NR: AR4046569 SOURCE: Ref. zh. Avtomat., telenekh. i vychiel. tekhn. Svodnyy tom, Abs. 8A170 AUTHOR: Denisov, A. A. TITLE: Rechanization of plotting the transients and frequency responses in CITED SOURCE: Uch. zap. aspirantov 1 soiskateley. Leningr. politekhr. in-t. Elektroizmerit. tekhn. i aytomatika. L., 1963, 79-85 TOPIC TARS: automatic control, mutomatic control design, automatic control system, automatic control theory TRANSLATION: A method is proposed for plotling amplitude-phase characteristics with a required accuracy by approximating a function of this form; $\int (l) - h_k \left[\frac{1}{2} + \frac{1}{n} \operatorname{Sl} \omega_c (l - l_k) \right],$ where \mathbf{h}_k is the amplitude, \mathbf{t}_k is the absoluse of the inflection point in the Cord 1/2

reducing the entire property mechanical operator. A simple a protractor is suggest plotting and obviates plotting of a transient	tion, at the cess of plotting a frequences which can be performed and described. The deall intermediate writing tourve with a specified teristic. In all cases, takes only a few minutes	ormed by means of a slide rule, a mesuri levice pennits fully s. The same device i accuracy on the ba the plotting of a t i. Bibliography: 1 t	slide rule and ng ruler, and mechanical permits mechanize sis of the ransient or	

EWA(h)/EWT(1) SOURCE CODE: UR/2563/65/000/255/0027/0033 27679-66 ACC NR. AT6004853 32 841 AUTHOR: Denisov, A. A. ORG: none * TITLE: Effect of the feedback-coil inductance upon the operation of the diode bridge converter in a frequency divider 25 SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 255, 1965. Radioelektronika (Radio electronics), 27-33 TOPIC TAGS: frequency divider, bridge converter, electric inductance, electric conduction, electronic feedback ABSTRACT: A regenerative frequency divider with a diode bridge converter suggested by J. A. Fitzgerald (Electronic Engg., 1952, 295) is considered. The converter is represented by its equivalent circuit, and elementary Kirchhoff relations are applied to this circuit. It is found that, with a high enough inductance of the feedback circuit, the diodes are conducting during nearly the entire period. A corroborating experiment revealed (oscillograms shown) that the time of all four diodes nonconducting is very short. These final results are reported: (1) The converter

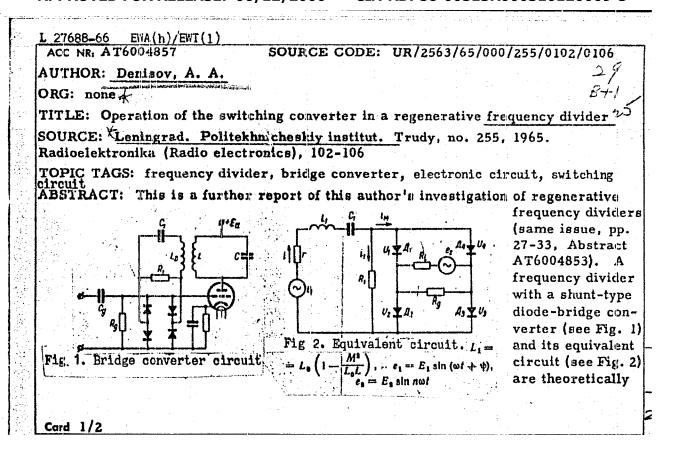
L 27679-66

ACC NR: AT6004853

operating conditions depend on the relations between the applied voltages and the circuit parameters (inductance, valve resistances, load resistance); (2) The time of all diodes conducting is largely determined by the feedback-coil inductance, its resistance, and forward resistance of the diode; (3) The duration of the all-diode conducting state is: T/2 < T < T where T is the period of the output frequency; at L = 0, the duration will be T/2; (4) When the E_2 / E_2 ratio is high, only two regions are possible: all diodes conducting and all diodes nonconducting; both odd and even ratios of division are possible. Orig. art. has: 5 figures and 43 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001

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L 27688-66 ACC NR. AT6004857 considered. When the feedback emf amplitude E₁ exceeds the external emf E₂ by several times, the desirable operating conditions (all-diodes conducting or nonconducting) are established. By applying the Kirchhoff laws to the equivalent circuit, a formula is developed which shows the conducting part of the time period and, hence, shows the feasibility of frequency division in the desired ratio. Adjustment of C₁ and R₂ can change the division ratio. Orig. art. has: 2 figures and 17 formulas. SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001

DENISOV, A.A.; BUTENKO, A.A.

Vacuum forming of thermoplastic parts. Mashinostroitel' no.12: 26-27 D '64. (MIRA 18:2)

AVILOV-KARNAUKHOV, B.N.; BOGUSH, A.G.; GIKIS, A.F.; DROZDOV, A.D.;

MALOV, D.I.; SINEL'NIKOV, Ye.M.; BRUSENTSOV, L.V.; DENISOV, A.A.;

PAL'SHAU, M.V.; POLYAKOV, F.I.; CHERNYAVSKIY, F.I.; BUROK, V.S.;

GORDEYEV, V.I.; KAZHDAN, A.E.; KOVALEV, V.Ye.; KURENNYY, E.G.;

POTAPENKO, V.Ya.

Professor Georgii Mikhailovich Kaialov, 1905-; on his 60th birthday and the 37th anniversary of his theoretical and educational work. Izv. vys. ucheb. zav.; elektromekh. 8 nc.10:1181-1182 *65.

DENISOV, A.B.

Changes in venous pressure under the influence of stimulation of the interoceptors of the large intestine of patients with chronic colitis. Zdrav. Tadzh. 7 no. 2:64-50 Mr-Ap '60.

(MIRA 13:10)

1. Iz kafedry gospital'noy terapii (zav. - dotsent Kh.Kh. Mansurov)
Stalinabadskogo medinstituta im. Abuali ibni Sino.
(BLOOD PRESSURE) (INTESTINES—INNERVATION) (COLITIS)

DENISOV, A.B.; KOSTIN, V.S., kand.med.nauk

Data from percutaneous splenomanometry and splenoportography in chronic hepatitis and cirrhosis of the liver. Zdrav. Tadzh. 7 no.5:35-38 '60. (MIRA 13:12)

1. Iz kafedry gospital'noy terapii (zav. - doktor med.nauk Kh.Kh. Mansurov) i kafedry gospital'noy khirurgii (zav. - prof. N.Z. Monakov) Stalinabadskogo medinstituta imeni Abuali ibni Sino. (LIVER...DISEASES) (SPLEEN)

DENISOV, A.B.

Effect of stimulation of the interoceptors of the large intestine on the contraction ability of the heart in chronic colitis. Zdrav. Tadzh. 8 no.4:50-54 Jl-Ag '61. (MIRA 14:10)

1. Iz kafedry gospital noy terapii (zav. - doktor med.nauk Kh.Kh. Mansurov) Stalinabadskogo meditsinskogo instituta imeni Abvali ibni Sino.

(INTESTINES_INNERVATION) (HEART_MUSCLE)
(GOLITIS)

MANDUMOV, YDI.Kh.; DENIGOV, A.B.

Pathogenesis of intrahepatic portal hyportension in cirrhosis of the liver. Trudy Inst. kraev. med. AN Tadzh. SSR no.1:152-163 162. (MIRA 17:5)

DENISOV, A.B.; KOSTIN, V.S.

State of portal pressure in some diseases of the liver. Trudy Inst. kraev. med. AN Tadzh. SSR no.1:178-193 182. (MIRA 17:5)

BAYEV, N.V.; BOBROV, Ye.G.; DEMIDOV, G.A.; DENISOV, A.D.; ZHUKGV, N.Ya.; LELEKOV, Yu.S.; POZDNYAKOV, I.M.; POLKOVNIKOV, B.M.; TRIBURT, I.I.; TYURIKOV, A.A.; SHESTAKOV, A.I., inzh.; PESKOVA, L.N., red.; KHITROVA, N.A., tekhn. red.

[Advanced technology on railroads] Peredovaia tekhnologiia na zheleznoi doroge. Moskva, Vses. izdatel sko-poligr. obnedinenie M-va putei soobshcheniia, 1961. 84 p. (MIFA 14:12) (Railroads)

KOMISSAROV, Sergey Aleksandrovich; DENISOV, Aleksey Dmitrivevich; TEREKHOV, V.D., red.; BITSENNO, M.A., tekhn. red.

[Let us increase the output of livestock produce] Uvelichim proizvodstvo produktov zhivotnovodstva. Moskva, Goskul¹tprosvetizdat, 1955. 53 p. (MIRA 16:8)
(Stock and stockbreeding)

DENISOV, A.D.; BALAKIN, V.M., red.; DMITRIYEV, I.N., red.

[Loose housing of cattle] Bespriviaznoe soderzhanie skota; sbornik statei. Moskva, Sel'khozizdat, 1963. 389 p. (MIRA 17:6)

LATATUYEV, V.I.; DENISOV, A.D.; KAZAKOVA, V.P.; PESHKOV, O.L.

Use of hydrazine sulfate as a reducing agent in chemical nickel plating process. Izv.vys.ucheb.zav.; khim.i khim.tekh. 7 no.6:973-975 *64. (MIRA 18:5)

1. Altayskiy politekhnicheskiy institut imeni Polzunova, kafedra neorganicheskoy i analiticheskoy khimii.

LATATUYEV, V.I., kand. tekhn. nauk; DENISOV, A.D.; PESHKOV, O.L.

Using hydrazine sulfate for chemical nickel plating of parts. Vest. mashinostr. 44 no.8:32 Ag. 164.

(MIRA 17:9)

L 52310-65 EWT(m)/EWP(i)/EWP(t)/EWP(b)

ACCESSION NR: AP5008806

\$/0080/65/038/003/0534/0537

AUTEOR: Latatuyev, V. I.; Denisov, A. D.; Peshkov, (), L.; Dorfman, E. M.; Zakabunina, N. I.

TITLE: Effect of the addition of certain salts on the rate of chemical plating with nickel

SOURCE: Zhurnal prikladnoy khimii, v. 38 no. 3, 1965, 534-537

TOPIC TAGS: nickel plating, nickel, additive, reagent impurity

ABSTRACT: Chemical nickel plating is widely used because it gives hard and uniformly thick nickel coatings on irregularly shaped metal articles. The effect which impurities in the starting reagents, water and electrolyzer material as well as of those which arise during the plating process have on the rate of chemical plating was investigated. The study covered various concentrations of Na2SO4(NH4)2SO4 and NH4F along with impurities present in commercial samples of these materials. Scalium sulfate, particularly at concentrations higher than 200 grams per liter, has a deleterious effect on the rate because it catalyzes

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200 grams per liter does af fluoride accelerates the ni were of inferior quality. sulfate to not alter the no sodium hypophosphate (with	yphosphate. Anmonium sulfate fect the rate of the nickel p ckel plating process but the The impurities commonly prese ornal mode of the nickel plati sodium acetate) can be used s ing however, preremoval of p	plating process. Ammonium obtained nickel platings ent in commercial nickel ing process. Commercial satisfactorily in the proc-
ASSOCIATION: none		
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회사는 연원 시간 보험 가면 바람이 되었다.		
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LATATUYEV, V.I., kand. tekhn. nauk, dotsent; DENISOV, A.D.

Using nickel hyposphite in chemical nickel coating. Vest. mashinostr. 45 no.5:51 My 165. (MIFA 18:6)

ACC NRI AP6035032

(A)

SOURCE CODE: UR/0122/66/000/009/0048/0049

AUTHOR: Latatuyev, V. I. (Candidate of technical sciences, Docent); Denisov, A. D.

ORG: none

TITIE: New alkaline composition for chemical nickel plating

SOURCE: Vestnik mashinostroyeniya, no. 9, 1966, 48-49

TOPIC TAGS: metal plating, electrolytic deposition, electrolyte

ABSTRACT: The samples used in the experiments were of Type 08 steel and copper which, before chemical nickel plating, were subjected to the usual preparation: electrochemical degreesing and pickling in hydrochloric acid. A table shows the results of experiments aimed at determining the optimum concentration of ammonium sulfate in chemical nickel plating. The initial conditions were the following: concentration of nickel hypophosphite 15 grams/liter; t = 80-85°C; pH = 8.2; duration of experiment 1 hour. Under these conditions, the best results were obtained with a concentration of ammonium sulfate equal to 30 grams/liter. Variation of the content of nickel hypophosphite showed that a concentration of 15 grams/liter was optimum. The investigations showed the great effect of the acidity of the solution on the rate of nickel plating. Thus, at a pH of 6, the coating rate was 6 microns/hour at 80-85°C; at a pH of 7-7.2, the rate was 22-23 microns/hour. In conclusion, the following were

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DEMISOV, A.F., atarshiy mashinist (depo Eszelinek, Orengurgsknya doroga).

304,000 kilometers without wheel assembly repairs. Elek.i tenl.tiaga no.7:28-30 Jl '57. (Mikh 10:3)

1. Brigada teplovosa TE2-235.

(Locomotives-Maintenance and revair)

DENISOV, A.F., insh.: PRITUZHALOV, V.Ta., insh.

Automatic skip hoisting. Besop.truda v prom. 3 no.12: 27-28 D '59. (MIRA 13:4)

1. Shakhta "Severnyy Maganak," Kusbass.
(Kusnetek Basin--- Mine hoisting)

VLASOVA, I.V.; IENISOV, A.F.; ZIMINA, G.V.; MARUNINA, N.I.; NALIMOV, V.V.; SUKHOV, G.V.

Application of consecutive analysis to radiometric measurements.

Zav.lab. 27 no.10:1261-1264 '61. (MIRA 14:10)

l. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyshlennosti.

(Radioisotepes).

SIROTKIN, Z.L., inzh.; BEKHTEREV, Yu.I., inzh.; DENISOV, A.G., inzh.

BelAZ-540 den skruck. Gor.zhur. no.4:57-58 Ap 162. (MIRA 1524)

1. Helorusskiy avtozavod.

(Dump trucks)

MEIESHKIN, S.M., gornyy inzhener; EERLYAND, S.S., gornyy inzhener; SIROTKIN, Z.L., inzh.; DENISOV, A.G., inzh.; TERNOVSKIY, G.I., inzh.; HEKHTEREV, Yu.I., inzh.; ZOTOV, A.V., inzh.; IVANOV, E.I., inzh.; VASIL'YEV, Ye.A., inzh.; SOLOV'YEVA, L.G., inzh.; D'YACHENKO, V.F., inzh.

Replies to V.V. Shan'ko's article "Efficient limits of using truck haulage in open pits." Gor, zhur. no.1:75-77 Ja '62.

(MIRA 15:7)

1. Gosudarstvennyy nauchno-ekonomicheskiy sovet Soveta Ministrov SSSR (for Meleshkin). 2. Promtransproyekt Gosstroya SSSR (for Berlyand). 3. Belorusskiy avtozavod (for Sirotkin, Denisov, Ternovskiy, Bekhterev, Zotov, Ivanov). 4. Gosudarstvennyy institut po proyektirovaniyu razrabotki rudnykh mestorozhdeniy v yuzhnykh rayonov SSSR, Khar'kov (for Vasil'yev, Solov'yeva, D'yachenko).

(Mine haulage) (Shan'ko, V.V.)

SIROTATE, Z.I..; DENISOV, A.G.

Future standard types of high-capacity motortrucks for mines designed at the Belorusskii Automobile Plant. Avt.prom. 28 no.8:5-7 Ag 162. (MIRA 16:3)

1. Belorusskiy avtozavod.

(Minsk--Motortrucks)

DENISOV, Aleksandr Gavrilovich; KAZAREZ, Aleksey Nikolayevich; SIROTKIN, Zalya L'vovich; TERNOVSKIY, Genrikh Ivanovich; SHUMSKIY, Mechislav Frantsevich; LESNYAKOV, F.I., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[MAZ-525 dump truck; its design and operation] Avtomobil'-samosval MAZ-525; ustroistvo i ekspluatatsiia. Moskva, (MIRA 16:10) Avtotransizdat, 1963. 166 p. (Dump trucks)

\$/109/62/007/008/010/015 D409/D301

9.4231

AUTHORS:

Rapoport, G.N. and Denisov, A.I.

TITLE:

A two-cascade backward-wave amplifier in the case of

strong signals

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 8, 1962,

1361-1366

The results are given of numerical calculations of strong signal amplification in a two-cascade backward-wave amplifier. A comparison with a single-cascade amplifier is made. The numerical integration of the nonlinear equations was performed on the electronic computer "Kiyev". The phases and velocities of the electrons which passed through the first cascade, were stored in the computer which passed through the first cascade, were stored in the computer which passed through the first cascade, were stored in the computer which passed as initial data for calculating the second cascade. This amounted to determination of the dependence of the cascadelength x_3 on the output amplitude δ_2 . It was necessary to perform a series of trial calculations, followed by interpolation. Owing to the great volume of calculations, the effect of the space charge was and the second of the second o

- 1. DENISOV, A. I., PROF.
- 2. USSR (600)
- 4. Science
- 7. Foreign scientists' views on Soviet science., Prirods, 41, No.11,1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

S/109/62/007/008/010/015 D409/D301

A two-cascade backward-wave ...

neglected and other simplifying assumptions were made. The results show that the first cascade operates in an almost linear regime. A figure shows the dependence of the total gain G of the amplifier, on the velocity parameter b. It was found that in the case of strong signals, the gain and bandwidth change little if the ratio I/I_{st2}. (operating current to starting current) varies from 0.53 to 0.96. From another diagram it is evident that with I/I_{st2} = 0.8, the saturation power of the amplifier is 2CIV approximately (C being the gain parameter and V the accelerating voltage); this is more than the maximum power of an oscillator for the same parameter-values. The nonlinear effects in the case of a strong signal, are to a large extent analogous in one-cascade and two-cascade amplifiers. A comparison of results shows that the two-cascade amplifier gives higher gain than the one-cascade amplifier; this applies to both strong and weak signals. On the other hand, power saturation at the output is more pronounced in the two-cascade amplifier. In order to provide greater band-width, it is convenient to make the first cascade shorter than the second. Under near-saturation conditions,

Card 2/3

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S/109/62/007/008/010/015 D409/D301

A two-cascade backward-wave ...

stability is preserved even in the I_{st} -region. Transition from the amplifying to the synchronization regime is not accompanied by a sharp change in output power. There are 7 figures.

SUBMITTED: October 9, 1961

Card 3/3

DENISOV, AI

. AUTHOR: Denisov, A. I.

49-6-20/21

TITLE: On the propagation of dust and gases from chimneys. (O rasprostranenii pyli i gazov iz dymovykh trub).

PERIODICAL: "Izvestiya Akademii Nauk, Seriya Geofizicheskaya"
(Bulletin of the Ac.Sc., Geophysics Series), 1957, No.6, pp. 834-837 (U.S.S.R.)

ABSTRACT: In designing factory chimneys it is necessary to select the parameters in such a way that the pollution of the atmosphere should not exceed the value specified by the health services. It is, therefore, necessary to determine the distribution of the concentration of admixtures in the atmosphere in the presence at a height h of a stationary point source of an output of Q; the admixtures in the atmosphere in the given case consist either of powder-like smoke settling in the gravitational field with a stable speed w or a gas for which the effect of settling is usually not of great importance. A number of papers are devoted to this subject. Of these the most important are those of Bosanquet, C.H. and Pearson, J.L. (5 and 6); the advantage of the work of Bosanquet and Pearson consists in the fact that they assume that the coefficient of vertical diffusion increases with altitude according to the linear

On the propagation of dust and gases from chimneys. (Cont.)

law K_z = b_zuz; this law corresponds to reality in the case of a zero temperature gradient. Unfortunately, due to their artificial assumption, they obtain an expression which is valid only for the above-ground concentration of a weightless admixture. The author shows in this paper that a solution can easily be obtained which does not involve this drawback. The derived relations are also expressed in the form of a graph, Fig.1, p.836. The graph, Fig.3, p.837, gives the curves of the geometrical location of the points of the maximum relative concentration. A characteristic feature is the fact that there is rapid approximation of the relative maximum of the smoke concentration towards the ground surface on moving away from the source in the

Card 2/2 the ground surface on moving away from the source in the direction of the wind, even without any gravitational effects.

There are 5 figures and 7 references, 2 of which are Slavic.

SUBMITTED: January 25, 1957.

ASSOCIATION: Institute of Applied Geophysics, Ac.Sc., U.S.S.R. (Akademiya Nauk SSSR Institut Prikladnoy Geofiziki).

AVAILABLE: Library of Congress

DENISOV, A. I.

27247. DENISOV, A. I.-- Neobkhodima rekonstruktsiya Winogradnikov v ashkhabadskoy oblasti. Binodelie i vinogradarstvo SSSR, 1949, No. 8, s. 19-20.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

DENISOV, A. I.

Mechanized roof caving in mine shafts. Moskva, Ugletkhizdat, 1949. 31 p. (50-18990) TN283.D38

1. Shaft sinking. 2. Soal mines and mining.

DENISOV, A. I.

Dissertation: "Investigation of Mortar for Walls and Facings of High Buildings." Cand Tech Sci, Moscow Construction Engineering Inst, Moscow, 1953. (Referativnyy Zhurnal-Khimiya, Moscow, No 4, Feb 54)

SO: SUM 243, 19 Oct 54

S/081/62/000/002/079/10 B150/B101

AUTHOR:

Denisov: A. I.

TITLE:

The phenomenon of "self-curing" of cements of constructional

mortars and concretes

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1962, 392 - 395, abstract 2K362 (Sb. Mosk. inzh.-stroit in-t, no. 18, 1960

37 - 44)

TEXT: A brief survey is made of tests on "self-curing" concrete in samples and structures and results are given of experiments made with repeated crushing of mortar cubes with edges 5 cm long in ordinary Portland cement, hydrophobic Portland cement and in mixed hydrophobic Portland cements with 10% to 20% of clay and clinker added during grinding. The test of the sample under pressure was stopped at the moment when disintegration began to occur under the effect of the pressure drop. After testing, the samples (as often happens) preserved their general coherence and correct shape. The samples were then dried to a fixed weight and again tested under pressure with the same direction of compression. The samples which pre-Card 1/2

The phenomenon of "self-curing"...

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served their shape in the second test were kept under water for 5 days and again subjected to a pressure test. The result disclosed that a part of the samples re-tested showed greater strength than in the first test. It was shown particularly clearly that "self-curing" does occur in mortars of hydrophobic Portland cement. Abstracter's note: Complete translation.

Card 2/2

CHUBOV, P.P., veterinarnyy vrach (Starominskiy rayon, Krasnodarskogo kraya);
DENISOV, A.I., veterinarnyy vrach (Starominskiy rayon, Krasnodarskogo kraya)

Provocation method for controlling brucellesis of animals on farms. Veterinariia 40 no.9:16-17 S '63. (MIRA 17:1)

26806 S/142/61/004/002/008/010 E192/E382

9,4230

AUTHOR: Denisov, A.I.

TITLE: Calculation of the Gain of a Sectionalised Travelling-wave Tube (TWT)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1961, Vol. 4, No. 2, pp. 212 - 215

TEXT: In many cases it is impossible to use an internal attenuator-absorber in a TWT for the purpose of eliminating its instability. On the other hand, if external attenuators are used, the net result is a sectionalised TWT (Ref. 1 - J.D. Pearson, H.S. Cockroft - A 20 kW Pulsed Travelling-wave Tube, PIEE, 1958, 105, No. 10, 458) and in this case it is interesting to consider the influence of the length of the drift space on the gain of the tube. The case when both sections of the tube are comparatively long was considered in Ref. 2 -Pearce, G.R... Travelling-wave Tubes, pub. Sovetskoye radio, 1952, IX) and it was found that at small QC it is desirable to reduce the drift length to a minimum in order to increase the gain. In the case when the normalised lengths Card 1/8

26806 \$/142/61/004/002/008/010 E192/E382

Calculation of the Gain

of the bunching and the output sections CN1 and CN3 (see Ref. 2) do not exceed 0.5, it is necessary to take into account all the three waves in both sections. In the following, it is assumed that both the sections of the delay system of the tube have identical coupling impedances and dissipation. The drift length CN2 and the effective drift length CN4 (measured from the centre of the bunching section to the centre of the output section) are also taken into account. Now, if CN_1 and CN_3 are sufficiently small, it is possible to give an approximate analysis based on the fact that the superposition of the three waves in the bunching section results in a voltage wave of almost constant amplitude, while in the output section the amplitude of the alternating current component changes comparatively little. The sectionalised TWT can thus be regarded as a two-stage klystron with travelling waves. The determination of the gain of such a tube can be based on the equations quoted in Ref. 3 (Rapoport, G.N. - IVUZ, Radiotekhnika, 1958, Vol. 1, No.5, 599) Card 2/8